

**DECLARATION AND POWER OF ATTORNEY**

We, the below named inventors, hereby declare that:

Our residences, post office addresses, and citizenships are as stated below next to our respective names.

We believe we are the original, first, and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled, "A semiconductor wafer comprising micro-machined components and a method for fabricating the semiconductor wafer" and for which an application for a Patent was filed on: July 12, 2002

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

We acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, Section 1.56.

We hereby declare that all statements are made hereby of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

And we hereby appoint:

Maurice E. Gauthier	-	Reg. No. 20,798
Richard L. Stevens	-	Reg. No. 24,445
Matthew E. Connors	-	Reg. No. 33,298
William E. Hilton	-	Reg. No. 35,192
Patrick J. O'Shea	-	Reg. No. 35,305
Arlene J. Powers	-	Reg. No. 35,985
Steven M. Mills	-	Reg. No. 36,610
Anthony P. Oneilo, Jr.	-	Reg. No. 38,572
Richard L. Stevens, Jr.	-	Reg. No. 44,357

all of the firm of Samuels, Gauthier & Stevens, our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

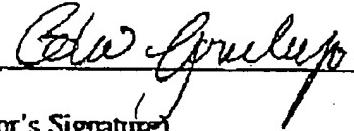
We request that all correspondence be directed to:

Samuels, Gauthier & Stevens, LLP  
225 Franklin Street, Suite 3300  
Boston, MA 02110

Attn: Matthew E. Connors

Colin Stephen Connolly

(Full Name of Inventor)

  
(Inventor's Signature)

30th November, 2001  
(Date)

42 Beechgrove Avenue, Belfast BT6 0NF, County Antrim, Northern Ireland.

A British subject

(Residence)

42 Beechgrove Avenue, Belfast BT6 0NF,  
County Antrim, Northern Ireland.

(Citizenship)

(Post Office Address)

Stephen Alan Brown

  
(Inventor's Signature)

(Full Name of Inventor)

32 Cambourne Park, Newtownards,  
County Down, BT23 4WE, Northern Ireland.

30th November 2001  
(Date)

(Residence)

A British subject

32 Cambourne Park, Newtownards,  
County Down, BT23 4WE, Northern Ireland.

(Citizenship) USA

(Post Office Address)

Scott Carlton Blackstone

  
(Inventor's Signature)

(Full Name of Inventor)

689 Black Point Road, Alton, New Hampshire 03809,  
United States of America.

4 Dec 2001  
(Date)

(Residence)

689 Black Point Road, Alton, New Hampshire 03809,

**A United States citizen.**

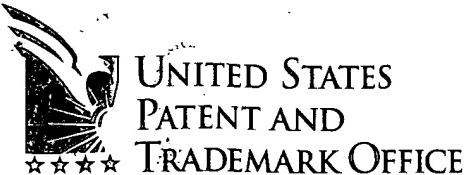
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**United States of America.**

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**(Citizenship)**

**(Post Office Address)**



JUL 21 2003

JULY 17, 2003

SAMUEL GAUTHIER & STEVENS LLP  
PTASI L LLP  
Under Secretary of Commerce For Intellectual Property and  
Director of the United States Patent and Trademark Office  
Washington, DC 20231  
[www.uspto.gov](http://www.uspto.gov)

MATTHEW E. CONNORS  
SAMUELS, GAUTHIER & STEVENS LLP  
225 FRANKLIN STREET, SUITE 3300  
BOSTON, MASSACHUSETTS 02110



\*102382713A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/26/2003

REEL/FRAME: 013803/0705  
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:  
GORMLEY, COLIN STEPHEN

DOC DATE: 11/30/2002

ASSIGNEE:  
BROWN, STEPHEN ALAN

DOC DATE: 11/30/2002

ASSIGNEE:  
BLACKSTONE, SCOTT CARLTON

DOC DATE: 12/04/2002

ASSIGNEE:  
ANALOG DEVICES, INC.  
ONE TECHNOLOGY WAY  
P.O. BOX 9106  
NORWOOD, MASSACHUSETTS 02062-9106

SERIAL NUMBER: 10194392  
PATENT NUMBER:

FILING DATE: 07/12/2002  
ISSUE DATE:

013803/0705 PAGE 2

SAUNDRA BALLINGER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

03-06-2003



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3-5-03

CROSS REFERENCE NO. 22

HONORABLE COMMISSIONER OF  
PATENTS AND TRADEMARKS  
WASHINGTON, D.C. 20231

SIR:

PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENT(S) OR COPY(IES) THEREOF.

## 1. NAME OF CONVEYING PARTY(IES)

Colin Stephen Gormley, Stephen Alan Brown &amp; Scott Carlton Blackstone

Additional name(s) of conveying party(ies) attached? No

## 2. NAME(S) AND ADDRESS(ES) OF RECEIVING PARTY(IES)

Analog Devices, Inc.  
One Technology Way  
P.O. Box 9106  
Norwood, MA 02062-9106

Additional name(s) of receiving party(ies) attached? No

## 3. NATURE OF CONVEYANCE

- Assignment
- Security Agreement
- Merger
- Change of Name
- Other

Execution Date: 11/30/02, 12/4/02 &amp; 8/28/02

## 4. APPLICATION NUMBER(S) OR PATENT NUMBER(S)

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s): 10/194,392

B. Patent No(s):

C. Issue Batch No.: \_\_\_\_\_

D. Issue Date: \_\_\_\_\_

Additional numbers attached? No.

## 5. NAME AND ADDRESS OF PARTY TO WHOM CORRESPONDENCE CONCERNING DOCUMENT SHOULD BE DIRECTED:

Matthew E. Connors  
Samuels, Gauthier & Stevens LLP  
225 Franklin Street, Suite 3300  
Boston, Massachusetts 02110  
(617) 426-9180, Extension: 112

## 6. TOTAL NUMBER OF APPLICATIONS AND PATENTS INVOLVED: 1

## 7. TOTAL FEE DUE: \$40.00 (Enclosed)

If any additional fee(s) are due, the Commissioner is hereby authorized to charge the Deposit Order Account noted in item 8.

## 8. DEPOSIT ACCOUNT NUMBER: 19-0079

## 9. STATEMENT AND SIGNATURE

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Matthew E. Connors  
Name of Person Signing

  
Signature

  
Date

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below in an envelope with sufficient postage addressed to the Assistant Commissioner of Patents and Trademarks, Office of Public Records, Crystal Gateway 4, Room 335 Washington, D.C. 20231.

Date: 2/26/03

  
Deborah M. Costello

03/06/2003 LMUELLER 0000074 10194392

01 FC:8021

40.00 DP

ASSIGNMENT

THIS ASSIGNMENT is made BETWEEN

COLIN STEPHEN GORMLEY, a British subject of 42 Beechgrove Avenue, Belfast  
BT6 ONF, County Antrim, Northern Ireland of the First Part,

STEPHEN ALAN BROWN, a British subject of 32 Cambourne Park, Newtownards,  
County Down BT23 4WE, Northern Ireland of the Second Part, and

SCOTT CARLTON BLACKSTONE, a United States citizen of 689 Black Point Road,  
Alton, New Hampshire 03809, United States of America of the Third Part (hereinafter  
the First to the Third Parts are collectively referred to as the "Inventors", which  
expression shall include their successors and assigns where the context so requires or  
admits)

AND ANALOG DEVICES, INC., a Massachusetts corporation having a place of  
business at One Technology Way, Norwood, Massachusetts 02062 U.S.A. (hereinafter  
referred to as the "Assignee", which expression shall include its successors and assigns  
and subsidiaries where the context so requires or admits) of the Fourth Part.

WHEREAS

- (a) The Inventors have made certain inventions or discoveries (or both) set forth in an application for Letters Patent as set forth in the Schedule hereto;
- (b) The Inventors are, or were at the time the invention was made, employees of the Assignee or were under contractual obligation with the Assignee, and made the said inventions and/or discoveries in the course of carrying out their duties as such employees or contractual duties;
- (c) The Inventors agree that the said duties were such that the same inventions and/or discoveries might reasonably be expected to result therefrom and that in consideration of such employment or contract their interest in and to the said inventions and/or discoveries is held in trust for and is the absolute property of the Assignee or whomsoever the Assignee may nominate; and
- (d) The Assignee had requested the Inventors agree to execute the ratification of assignment hereinafter contained.

NOW THIS DEED WITNESSETH that in consideration of the premises and without reservations:

1. The Inventors hereby assign, transfer and convey unto the Assignee the entire right and title and interest in and to the said inventions and/or discoveries, the said application for Letters Patent and any and all other applications for Letters Patent or otherwise on the said Inventions and/or discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation applications and applications under the International (Paris) Convention, European Patent Convention, Patent Cooperation Treaty, Community Patent Convention, or otherwise, based in whole or in part upon said inventions and/or discoveries, or upon the said application, and in and to any and all Letters Patent, reissues and extensions of Letters Patent granted for said inventions and/or discoveries or upon the said application, and every priority right that is or may be predicated upon or arise from said inventions and/or discoveries, said application and Letters Patent;
2. The Inventors hereby authorize the Assignee to file and assent to the Assignee filing patent applications in any or all countries on any or all of said inventions and/or discoveries in the name of the Inventors or in the name of the Assignee or otherwise as the Assignee may deem advisable, under the terms of the International (Paris) Convention, European Patent Convention, Patent Cooperation Treaty, Community Patent Convention or otherwise;
3. The Inventors hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the official empowered by all other governments and under the aforesaid Conventions, Treaties or otherwise, to issue or transfer all said Letters Patent to the Assignee.
4. The Inventors hereby warrant that they have not knowingly conveyed to others any right in the said inventions and/or discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions and/or discoveries; and that the Inventors have good right to assign the same unto the Assignee without encumbrance;

5. The Inventors hereby bind their heirs, legal representatives and assigns, as well as themselves, to do, upon the Assignee's request and at the Assignee's expense, but without additional consideration to them or to the Assignee, all acts reasonably serving to assure that the said inventions and/or discoveries, the said patent application and the said Letters Patent shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the Inventors, their heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to the Assignee all lawful application documents including petitions, specifications, oaths, powers of attorney, and all assignments, disclaimers and lawful affidavits in form and substance as may be required by the Assignee; to communicate to the Assignee all facts known to the Inventors relating to said Inventions and/or discoveries or the history thereof; and to furnish the Assignee with any and all documents, photographs, models, samples and other physical exhibits in the Inventors' control or in the control of their heirs, legal representatives or assigns which may be useful for establishing the facts of the conceptions, disclosures, and reduction to practice of said inventions and/or discoveries.

THE SCHEDULE ABOVE REFERRED TO

Attorneys File	U.S. Appln. Number	Filing Date	Title
6830	10/194,392	7/12/02	"A semiconductor wafer comprising micro-machined components and a method for fabricating the semiconductor wafer"

Permission is hereby granted to Samuels, Gauthier & Stevens, LLP to enter any identifying information missing in said schedule.

IT IS HEREBY CERTIFIED that the transaction hereby effected does not form part of a larger transaction or a series of transactions in respect of which the amount or values or the aggregate amount or value of the consideration exceeds Five thousand Irish Pounds (IR£5,000).

IN WITNESS WHEREOF the parties hereto have set their hand.

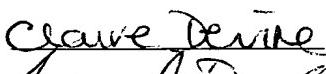
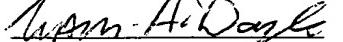
SIGNED by the said

COLIN STEPHEN GORMLEY

  
COLIN STEPHEN GORMLEY

this ..... 30<sup>th</sup> day of November 2002

in the presence of:

(WITNESSES)

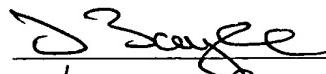
SIGNED by the said

STEPHEN ALAN BROWN

  
STEPHEN ALAN BROWN

this ..... 30<sup>th</sup> day of November 2002

in the presence of:


(WITNESSES)

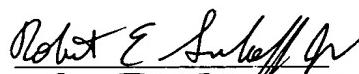
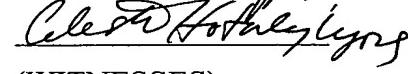
SIGNED by the said

SCOTT CARLTON BLACKSTONE

  
SCOTT CARLTON BLACKSTONE

this ..... 7..... day of ..... 2002

in the presence of:

(WITNESSES)

Signed for and on behalf of  
ANALOG DEVICES, INC.

BY: W. A. Wise  
Name: W. A. Wise  
CAPACITY: ASSISTANT CLERK

BY: \_\_\_\_\_  
Name: \_\_\_\_\_  
CAPACITY: \_\_\_\_\_

in the presence of:

Maureen Hofforan  
Ermae Long  
(WITNESSES)

\_\_\_\_\_

this ... 28<sup>th</sup> day of August, 2002